

Pacific Northwest National Laboratory Environmental Management Performance Report

April 2001

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

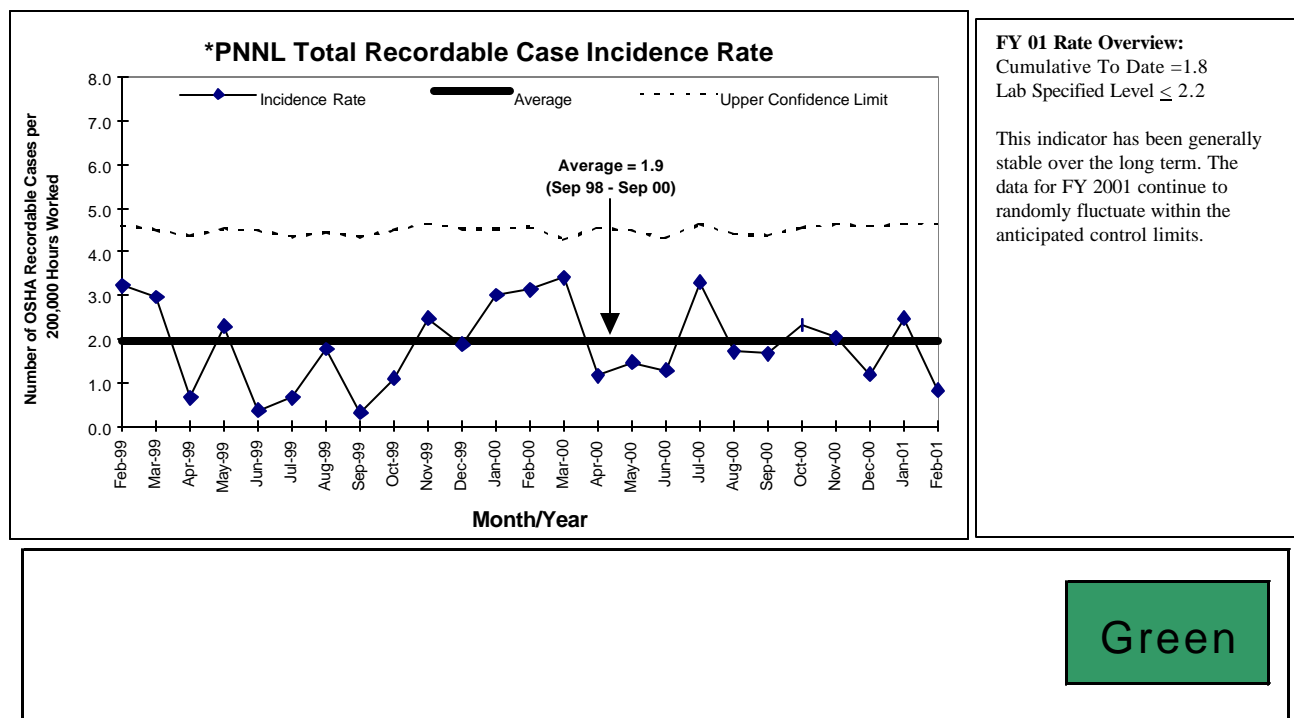
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-113a, PNNL's Project Status Report for February 2001. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of February 25, 2001.

This section provides an executive-level summary of performance information and is intended to bring to management's attention that information considered to be most noteworthy. The section begins with overview of safety, a summary of FY 2001 performance, a summary of Fiscal Year (FY) 2001 Voluntary Protection Program (VPP) activities, followed by a stoplight chart on overall performance.

Safety Overview

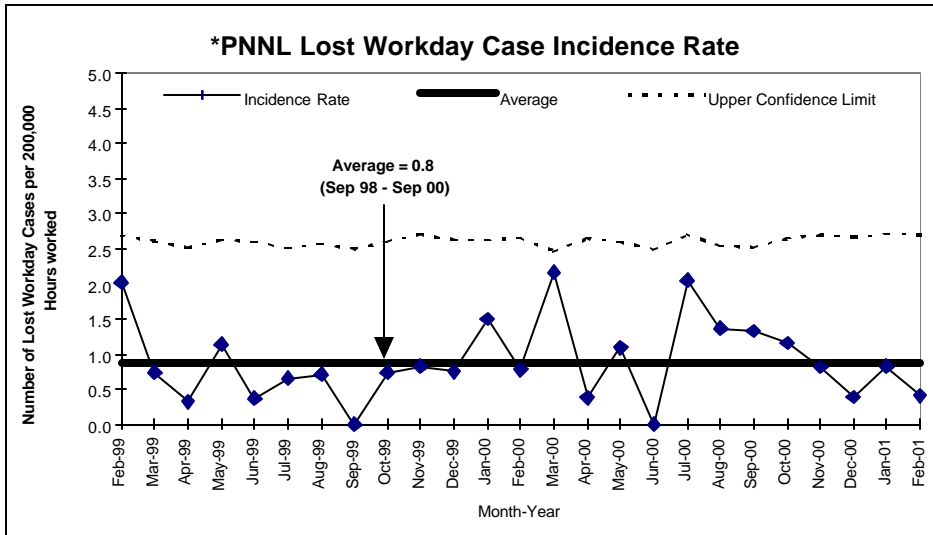
The focus of this section is on documenting trends in work-related injury and illness rates. These are the same performance indicators as appear in the FY 2001 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory Operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the continued implementation of the Integrated Safety Management System (ISMS), and the development and implementation of the Voluntary Protection Program (VPP).



*Includes all Pacific Northwest National Laboratory Operations.

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Section A - Executive Summary



FY 01Rate Overview:

Cumulative To Date = 0.7
Lab Specified Level ≤ 1.1

This indicator has been generally stable over the long term. The data for FY 2001 continue to randomly fluctuate within the anticipated control limits.

Green

*Includes all Pacific Northwest National Laboratory Operations.

Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL.
(Narrative not required when rating is green.)

Green

Green: Satisfactory
Yellow: Significant improvement required
Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests, if any, for the period covered.. In FY 2001, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Activity Summary

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during February 2001.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Inspections were completed for all excess facilities scheduled. One facility was actually inspected in January and the 2718-E facility was inspected this period. No issues of significance were noted. Eight of the 24 uranium fuel drums repackaged last month were shipped from 2718-E. Shipment of the remaining 16 drums is expected next period. Coordination of activities to transfer a majority of the shutdown facilities as a “block” transfer continued. A Memorandum of Agreement (MOA) was routed in January and remains in the approval process within Fluor Hanford. Clarifying information has been provided as requested to try to expedite the signing of this MOA.
- Scheduled routine waste management activities were performed during the period. All air and water samples required during the month of February were collected, and confirmed that all routine effluent discharges from Pacific Northwest operations reported to date are below historical release levels and compliant with existing state and federal permits.
- Sixty-two National Environmental Protection Act (NEPA) reviews were completed on experimental projects within the Laboratory to ensure that the associated project scope will not have potential to create environmental risks. As a result of the DOE-RL NEPA Compliance Officer approval of a Categorical Exclusion (CX), fuel rods containing 390 kg of 4.3 percent enriched uranium-235 from the 2718-E Building were shipped on February 7 to Sandia National Laboratories. The shipment directly supports Tri-Party Agreement target milestone MX-092-06-T01, for the storage, treatment, and disposal of Hanford Site un-irradiated uranium

- The Bowling Ball Cask waste has been packaged and the final disposal documentation has been processed. The five 55 gal. drums of waste were shipped February 22. Three 5-gallon drums of transuranic (TRU) waste and one 55-gallon drum of mixed TRU waste were shipped to the Central Waste Complex (CWC) on February 22. Profiles are being prepared for 5 additional misc. legacy waste drums that are due to be shipped to the CWC in the near future. All legacy high dose waste has been transferred from the Shielded Analytical Lab (SAL) to the High Level Radiochemistry Facility (HLRF). All the contents of the 73 cans of high dose waste have been packaged into the inner “primary” containers and loaded into the eleven shipping drums. The next step is to begin the final disposal paperwork with the CWC and then make arrangements for a shipping date for the 11 drums. This shipment will be the first ever using the specially designed drums. Only two such shipments are allowed in a calendar year. The first shipment is anticipated to occur in June.

Performance Data and Analysis

As of February 25, 2001 the cumulative costs are \$4.6 million with a positive cost variance of \$0.1M and a cumulative schedule variance of negative \$0.4M. Two outstanding baseline change requests were approved in February 21 aligning budgets with available funding. The cost and schedule variances are within the 10 % reporting threshold.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$4.7	\$4.6	\$0.1
Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$4.7	\$5.1	(\$0.4)

FY 2001 Cost/Schedule Performance - All Fund Types **Cumulative to Date Status - (\$000)**

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	<u>\$5,149</u>	<u>\$4,736</u>	<u>\$4,625*</u>	<u>\$111</u>	<u>2</u>	<u>(\$412)</u>	<u>-8</u>
Total		\$5,149	\$4,736	\$4,625*	\$111	2	\$(412)	-8

* Numbers reflect PNNL system; per DISCAS actuals, including \$ expended by Fluor for S&M of 242B/BL, are \$5,661.9K.

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Section B - Project Performance Summary

Cost / Schedule Performance Indices

FY 2001 Cum to Date Status
(\$000s)

